

5842/417A

Medium-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Absolute-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.300 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode 55 max. volts

Heater positive with
respect to cathode 55 max. volts

Direct Interelectrode Capacitances (Approx.):^a

Plate to cathode and heater 0.55 μf

Cathode to grid and heater 9 μf

Plate to grid and heater 1.8 μf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 130 150 volts

Grid Voltage^b 9 - volts

Cathode Resistor 360 60 ohms

Amplification Factor 43 43

Plate Resistance (Approx.) 1600 1700 ohms

Transconductance 27000 25000 μmhos

Plate Current 27 25 ma

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 1-3/4"

Maximum Seated Length 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip) . 1-1/8" $\pm$ 3/32"

Diameter 0.750" to 0.875"

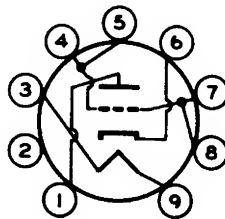
Dimensional Outline See *General Section*

Bulb T6-1/2

Base Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW9V

Pin 1 - Plate
Pin 2 - No Internal
Connection
Pin 3 - Heater
Pin 4 - Grid



Pin 5 - Grid
Pin 6 - Cathode
Pin 7 - Grid
Pin 8 - Grid
Pin 9 - Heater

AMPLIFIER — Class A₁

Maximum Ratings, *Absolute-Maximum Values*:

PLATE VOLTAGE 200 max. volts

CATHODE CURRENT 38 max. ma



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
3-62

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PLATE DISSIPATION. 4.5 max. watts

BULB TEMPERATURE (At hottest point on
bulb surface). 160 max. °C

^a Without external shield.

^b Measured with respect to the negative end of the cathode resistor.

